

# Corporate connect platform for startups Software Requirements Specification

**Version <1.0>**

Submitted in Partial Fulfillment for the Award of Degree of Bachelor of Technology in  
Information Technology from Rajasthan Technical University, Kota



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**Revision History**

Date	Version	Description	Author
30/11/24	<1.0>	Contain basic layout and requirement specification for this project	Nakshatra Jain, Mehul Mangal, Praveen Dudi

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## 1 Introduction

The **Software Requirements Specification (SRS)** document for the "Corporate Connect Platform for Startups" outlines the comprehensive requirements for developing a platform that bridges the gap between startups and corporates. It aims to enable partnerships, mentorships, CSR funding, and B2B sales opportunities. This document serves as a blueprint for the system, ensuring clear communication among stakeholders, developers, and users regarding the software's design and functionality.

The Corporate Connect Platform aims to bridge the gap between startups and large corporations, enabling collaboration opportunities in the areas of partnerships, B2B sales, funding, and mentorship. Focused on matchmaking between startups and corporates based on mutual interests, region, and industry. Provides features such as CSR funding opportunities, mentorship programs, and a B2B marketplace.

### 1.1 Purpose

The purpose of this SRS document is to provide a detailed description of the Corporate Connect Platform for Startups, including its functionality, behavior, and constraints. The document outlines both functional and non-functional requirements for the platform, ensuring clarity for developers, stakeholders, and users. The SRS also includes design considerations and serves as a reference for the development and validation processes.

### 1.2 Scope

The primary purpose of this Software Requirement Specification (SRS) document is to fully describe the requirements, external behavior, and operational constraints of the Corporate Connect Platform for Startups. It details functional and non-functional requirements, ensuring the platform aligns with business goals. Additionally, it specifies design constraints, usability factors, and technologies required to guide the development process comprehensively.

Furthermore, the SRS serves as a roadmap guiding the entire software development lifecycle, from initial concept to final product delivery. It facilitates effective communication and collaboration among team members, reducing the risk of misinterpretation and ensuring that the platform aligns with the user's needs.

### 1.3 Definitions, Acronyms, and Abbreviations

- SRS: Software Requirements Specification
- CSR: Corporate Social Responsibility

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- UI: User Interface
- UX: User Experience
- B2B: Business-to-Business
- AI: Artificial Intelligence
- API: Application Programming Interface.

## 1.4 References

- Global Startup Ecosystem Report (GSER) 2023
- Designing Matchmaking Algorithms for Business Applications - Journal of Software Engineering, 2022
- Agile Software Development Practices Guide, 2020, Scrum Alliance
- PostgreSQL Documentation - Version 15.0
- React.js Official Documentation (<https://reactjs.org/>)
- Research papers on Startup-Corporate Partnerships

## 1.5 Technologies to be Used

- Frontend: React.js or Angular
- Backend: Node.js/Express.js or Django
- Database: PostgreSQL or MongoDB
- Security: OAuth 2.0, SSL/TLS Encryption
- APIs: RESTful APIs for smooth communication

## 1.6 Overview

This SRS document is organized into sections that progressively detail the platform's requirements:

- **Section 2:** Overall Description – System objectives, interactions, and dependencies.
- **Section 3:** Specific Requirements – Functional and non-functional requirements.
- **Section 4:** System Models – Use case diagrams, sequence diagrams, and data flow representations.
- **Section 5:** Appendices – Additional details, glossaries, and references for better understanding.

## 2 Literature Survey

The **Literature Survey** section outlines existing systems, research studies, and methodologies relevant to the "Corporate Connect Platform for Startups." It highlights gaps in current solutions, conducts a comparative analysis, and establishes a foundation for the proposed work.

### 2.1 Review of Related Work

#### 1) Startup Networking Platforms (e.g., AngelList):

- Focus primarily on connecting startups with investors.

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- Offer limited functionality for corporate-startup collaborations or CSR funding opportunities.
- Lack tailored matchmaking mechanisms for region-specific or domain-specific needs.

2) **Corporate Platforms (e.g., LinkedIn):**

- Provide broad networking capabilities but lack tools for in-depth startup discovery based on strategic interests or goals.
- Emphasis is on general professional connections rather than specific startup-corporate partnerships.

3) **CSR-Focused Platforms:**

- Platforms for CSR funding mostly cater to NGOs and non-profits rather than startups.
- Existing solutions are not optimized for business-centric innovation partnerships.

4) **Startup Accelerators and Incubators (e.g., Y Combinator):**

- Focused on mentorship and funding but operate in a cohort-based model.
- Accessibility is limited to startups selected for their programs, leaving out a broader audience.

## 2.2 Knowledge Gaps

1) **Lack of Comprehensive Platforms:**

- Existing platforms focus on isolated aspects such as funding or networking but fail to integrate multiple functionalities like CSR funding, mentorship, and B2B partnerships.

2) **Limited Matchmaking Mechanisms:**

- Current systems do not employ advanced matchmaking techniques that consider region, domain, and mutual interests simultaneously.

3) **Absence of Corporate-Centric Features:**

- Corporates often lack tools to evaluate startup compatibility in terms of business models, innovation alignment, and CSR initiatives.

4) **Minimal Focus on Startups' Needs:**

- Startups struggle to find platforms that cater to mentorship, partnerships, and funding under one roof.

## 2.3 Comparative Analysis

Feature	AngelList	LinkedIn	CSR Platforms	Proposed Platform
Startup-Corporate Matching	X	X	X	✓
CSR Funding Opportunities	X	X	✓	✓
Mentorship Opportunities	✓	X	X	✓
B2B Sales and	X	X	X	✓

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Partnerships				
Region and Domain Filtering	X	X	X	✓
Ease of Use and Scalability	✓	✓	X	✓

## 2.4 Summary

- Existing systems provide limited solutions for the challenges startups and corporates face when trying to collaborate.
- The proposed Corporate Connect Platform for Startups fills these gaps by integrating comprehensive matchmaking tools, enabling CSR funding, fostering mentorship, and facilitating B2B sales opportunities.
- By addressing these gaps, the platform establishes itself as a unique solution to build a robust ecosystem where startups and corporates can thrive through meaningful partnerships.

## 3 Specific Requirements

This section details the functional, non-functional, hardware, and software requirements for the **Corporate Connect Platform for Startups**. It also outlines the methodology, business process model, and supplementary requirements necessary to design, develop, and test the system effectively.

### 3.1 Functional Requirements

The core functional requirements include:

#### 1) User Registration and Login:

- Startups and corporates must register and log in securely using email, phone, or social media credentials.
- Admin panel for managing user registrations and approvals.

#### 2) Profile Management:

- Startups: Add company details, industry domain, funding requirements, and interests.
- Corporates: Add company information, CSR goals, and partnership preferences.

#### 3) Matchmaking Algorithm:

- Suggests relevant startups to corporates based on domain, location, and mutual interests.
- Suggests relevant corporates to startups for mentorship, funding, or partnerships.

#### 4) Search and Filter Options:

- Search users and filter results by location, domain, funding goals, or CSR objectives.

#### 5) Messaging and Collaboration:

- Secure messaging feature for startups and corporates to communicate and share proposals.

#### 6) CSR Fund Management:

- Corporates can create CSR funding opportunities and track applications from startups.

#### 7) Notifications and Updates:

- Notify users about matches, messages, or CSR funding opportunities.

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#### 8) Admin Dashboard:

- Manage user profiles, monitor system activity, and generate reports.

### 3.2 Non-Functional Requirements

#### 1) Performance Requirements:

- The system must handle at least 1,000 concurrent users with minimal response time (<2 seconds).

#### 2) Scalability:

- Should support future scaling to accommodate a growing user base.

#### 3) Security:

- Enforce OAuth 2.0 authentication and data encryption (SSL/TLS) for secure transactions.

#### 4) Usability:

- Provide an intuitive UI/UX for all user types (startups, corporates, admins).

#### 5) Availability:

- Ensure 99.9% uptime with minimal downtime for maintenance.

#### 6) Data Integrity:

- Ensure consistent and accurate data storage and retrieval.

### 3.3 Hardware Requirements

#### 1) Server-Side Hardware:

- Processor: Quad-Core Intel Xeon or equivalent
- RAM: Minimum 16 GB
- Storage: Minimum 500 GB SSD
- Network: High-speed internet connection (1 Gbps)

#### 2) Client-Side Hardware:

- Device: Desktop, Laptop, Tablet, or Smartphone
- Browser: Latest version of Chrome, Firefox, or Safari
- OS: Windows 10/11, macOS, Linux, Android, or Ios

### 3.4 Software Requirements

#### 1) Server-Side Software:

- OS: Linux (Ubuntu 22.04 or CentOS)
- Backend Framework: Node.js/Express.js or Django
- Database: PostgreSQL or MongoDB
- Cloud Platform: AWS or Azure

#### 2) Client-Side Software:

- Frontend Framework: React.js or Angular
- Browser Compatibility: Support for modern web browsers

#### 3) Development Tools:

- Version Control: Git and GitHub
- IDE: Visual Studio Code or PyChar



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### 3.5 Agile Methodology

#### 1) Scrum Framework:

- **Sprints:** 2-week development cycles.
- **Roles:** Product Owner, Scrum Master, Development Team.
- **Artifacts:** Product Backlog, Sprint Backlog, Increment.

#### 2) User Stories:

- Example: "As a startup, I want to search for corporates in my domain to pitch my product."

#### 3) Daily Standups:

- Regular meetings to ensure progress, address challenges, and align goals.

#### 4) Continuous Integration/Continuous Deployment (CI/CD):

- Automated testing and deployment pipeline for rapid iteration.

### 3.6 Business Process Model

#### 1) High-Level Workflow:

- **Step 1:** Startups and corporates register and set up profiles.
- **Step 2:** Matchmaking algorithm connects relevant users.
- **Step 3:** Corporates review startup proposals for CSR funding, mentorship, or partnerships.
- **Step 4:** Startups and corporates communicate and finalize agreements.
- **Step 5:** Admin monitors activity and ensures compliance with platform policies.

#### 2) Key Processes:

- CSR funding lifecycle from application to approval.
- Startups submitting partnership proposals.
- Corporates providing mentorship feedback.

### 3.7 Supplementary Requirements

#### 1) Regulatory Compliance:

- Adherence to data protection laws such as GDPR and CCPA.

#### 2) Audit Logs:

- Maintain logs of user activity for security and performance analysis.

#### 3) Localization:

- Support multiple languages to cater to users from different regions.

#### 4) Help and Support:

- Provide a help center and customer support options for technical assistance.

## 4 System Architecture

The system architecture of the **Corporate Connect Platform for Startups** is designed as a scalable, secure, and modular application. This section provides an overview of the structural design, focusing on the interaction between key components, including clients, servers, databases, and external APIs.

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## 4.1 Client-Server Architecture

The system follows a **three-tier client-server architecture**:

### 1) Client Tier (Frontend):

- Users interact with the system through a responsive web interface developed using **React.js** or **Angular**.
- Key responsibilities:
  - Displaying data retrieved from the server.
  - Sending user requests to the server through RESTful APIs.
  - Validating inputs before sending them to the backend.

### 2) Server Tier (Backend):

- The backend, built using **Node.js/Express.js** or **Django**, processes requests from clients, performs business logic, and interacts with the database.
- Key responsibilities:
  - Handling client requests via RESTful APIs.
  - Implementing the matchmaking algorithm.
  - Managing secure communication and authentication using **OAuth 2.0**.

### 3) Database Tier:

- A PostgreSQL or MongoDB database stores user profiles, CSR funding details, partnership records, and messaging data.
- Key responsibilities:
  - Storing structured and unstructured data.
  - Ensuring data integrity and fast retrieval.

### Interaction Flow:

- **User Action (Frontend):** A user (startup or corporate) submits a request, such as searching for partners or applying for CSR funding.
- **API Request (Backend):** The client sends the request to the server via RESTful APIs.
- **Processing (Server):** The server validates inputs, processes business logic, and retrieves data from the database.
- **Response (Frontend):** The server sends a response back to the client, displaying the results to the user.

### Diagram:

The architecture can be represented with the following components:

- **Frontend (Client):** Browsers or mobile apps.
- **Backend (Server):** Application server processing requests.
- **Database:** Data storage and management.

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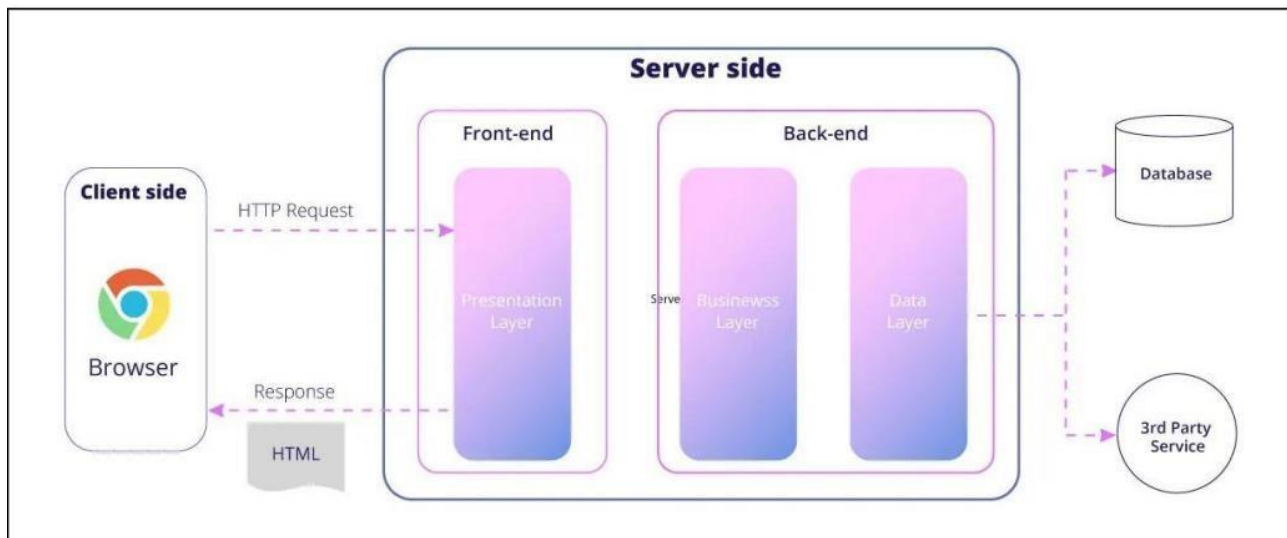


Fig-4.1 Client-server Architecture for Corporate Connect Platform

## 4.2 Communication Interfaces

### 1) RESTful APIs:

- **Purpose:** Enable seamless communication between the frontend and backend.
- **Endpoints:** Examples include /login, /register, /search, /applyCSR, and /getMatches.
- **Data Format:** JSON for lightweight and fast data exchange.

### 2) Database Communication:

- **Backend to Database:**
  - Communication occurs using ORM frameworks like Sequelize (Node.js) or Django ORM.
  - Queries include user authentication, data retrieval for matchmaking, and message storage.
- **Database Protocols:**
  - SQL-based queries for PostgreSQL.
  - NoSQL operations for MongoDB (if selected).

### 3) Security Protocols:

- **Authentication:** OAuth 2.0 for secure user login.
- **Encryption:** SSL/TLS ensures data security during transmission.
- **Tokens:** JSON Web Tokens (JWT) for session management.

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## 5 Overall Description

This section provides a comprehensive background for the requirements outlined in the SRS.

It includes product perspective, features, user characteristics, constraints, assumptions, and dependencies to provide clarity about the product and its context.

### 5.1 Product Features

The Corporate Connect Platform for Startups is designed to bridge the gap between startups and corporates, enabling partnerships, CSR funding, mentorship, and B2B collaborations. Key features include:

#### 1) User Registration and Authentication:

- Secure registration for startups and corporates.
- Role-based authentication and access control.

#### 2) Comprehensive User Profiles:

- Startups can create detailed profiles with information about their industry, funding needs, and collaboration goals.
- Corporates can list their CSR initiatives, partnership interests, and mentorship opportunities.

#### 3) Advanced Matchmaking Algorithm:

- Matches startups and corporates based on region, domain, and mutual interests.
- Personalized suggestions for partnerships and funding opportunities.

#### 4) CSR Funding Management:

- Corporates can post funding opportunities and manage applications.
- Startups can apply for CSR funding with a single click.

#### 5) Admin Dashboard:

- Manage users, monitor platform activity, and generate detailed reports.

#### 6) Communication:

- Built-in secure messaging system for startups and corporates.
- Notifications for new matches, messages, or CSR opportunities.

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## 5.2 Data flow diagram

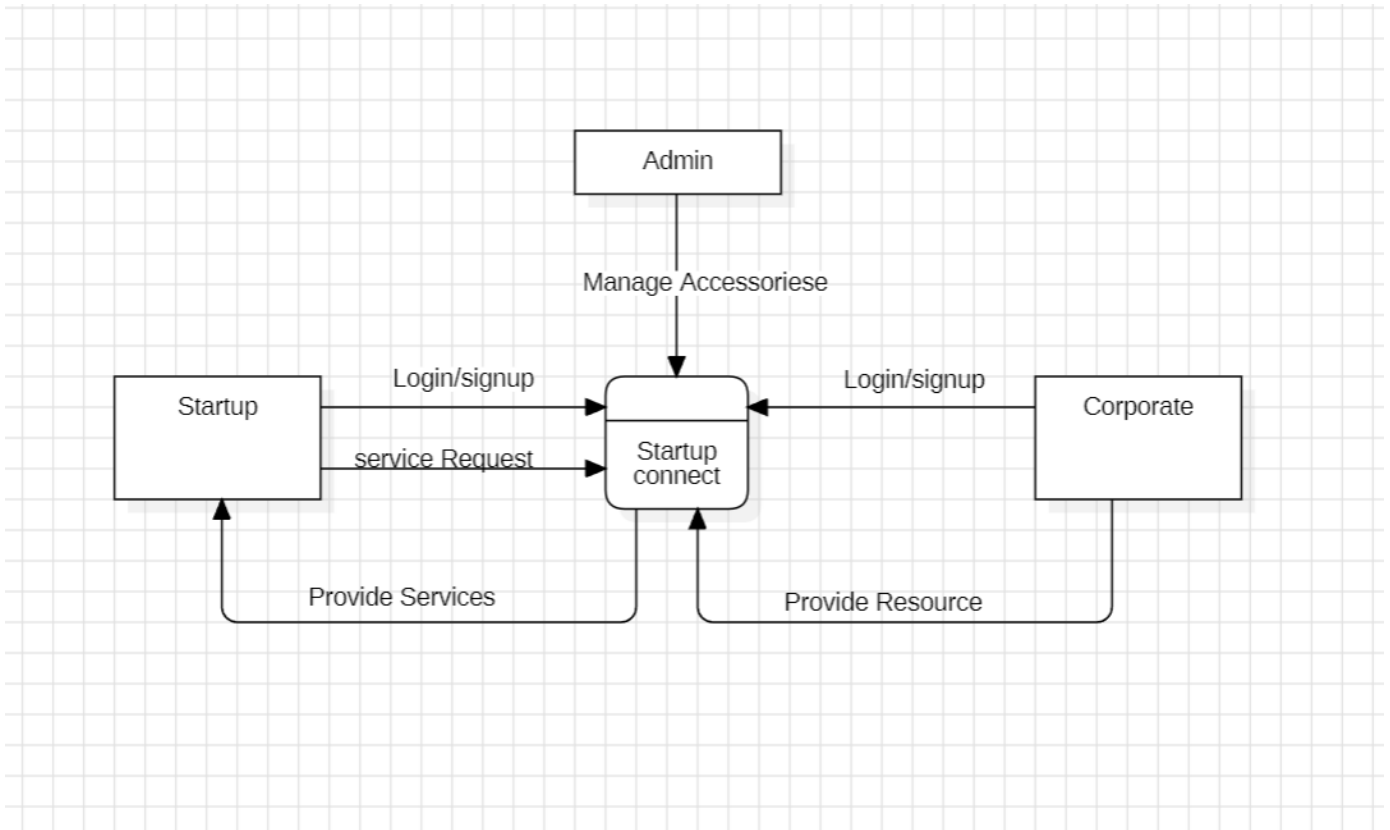


Fig-5.2.1 Data Flow Diagram level-0

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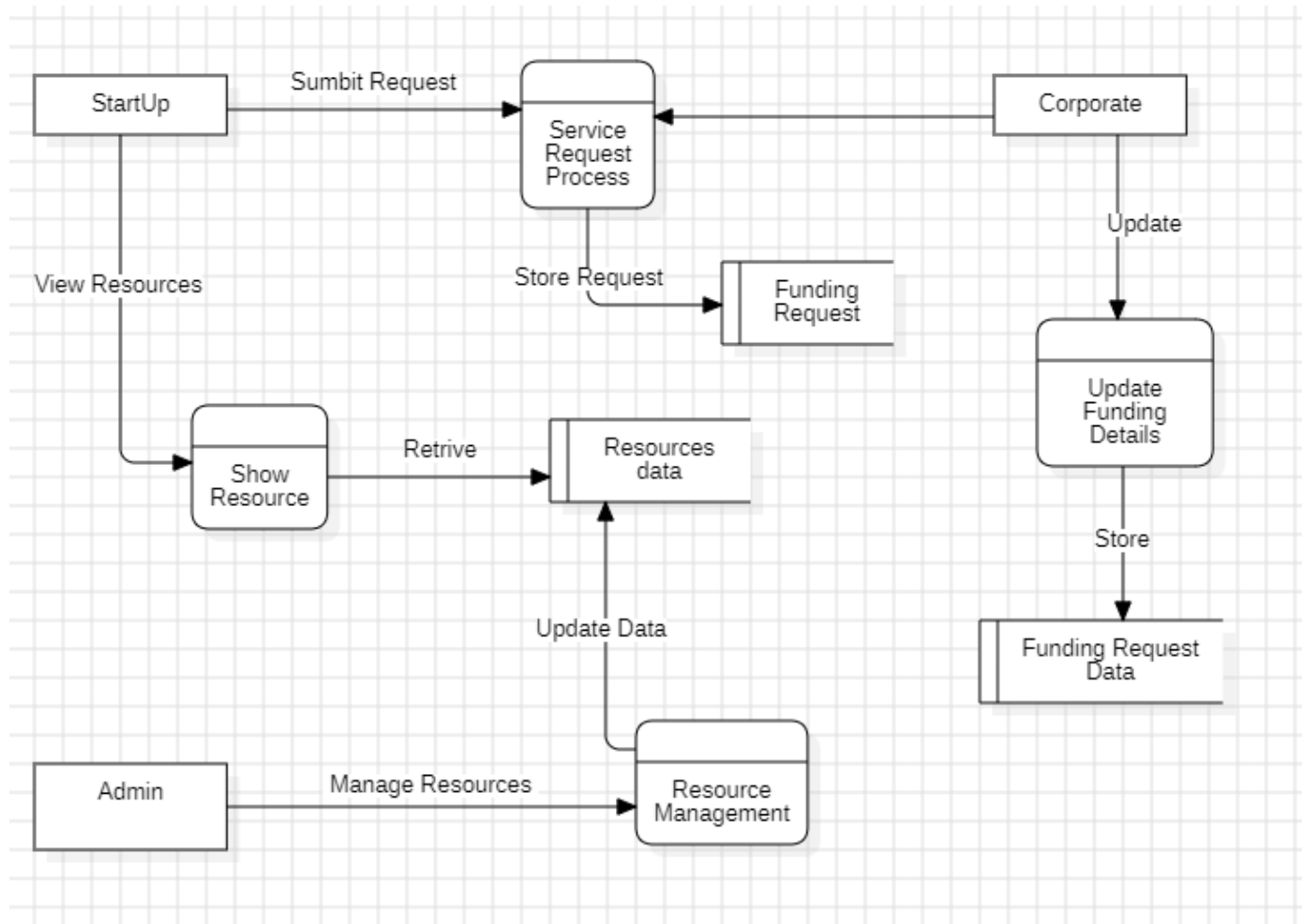


Fig 5.2.2 Data Flow Diagram level-1

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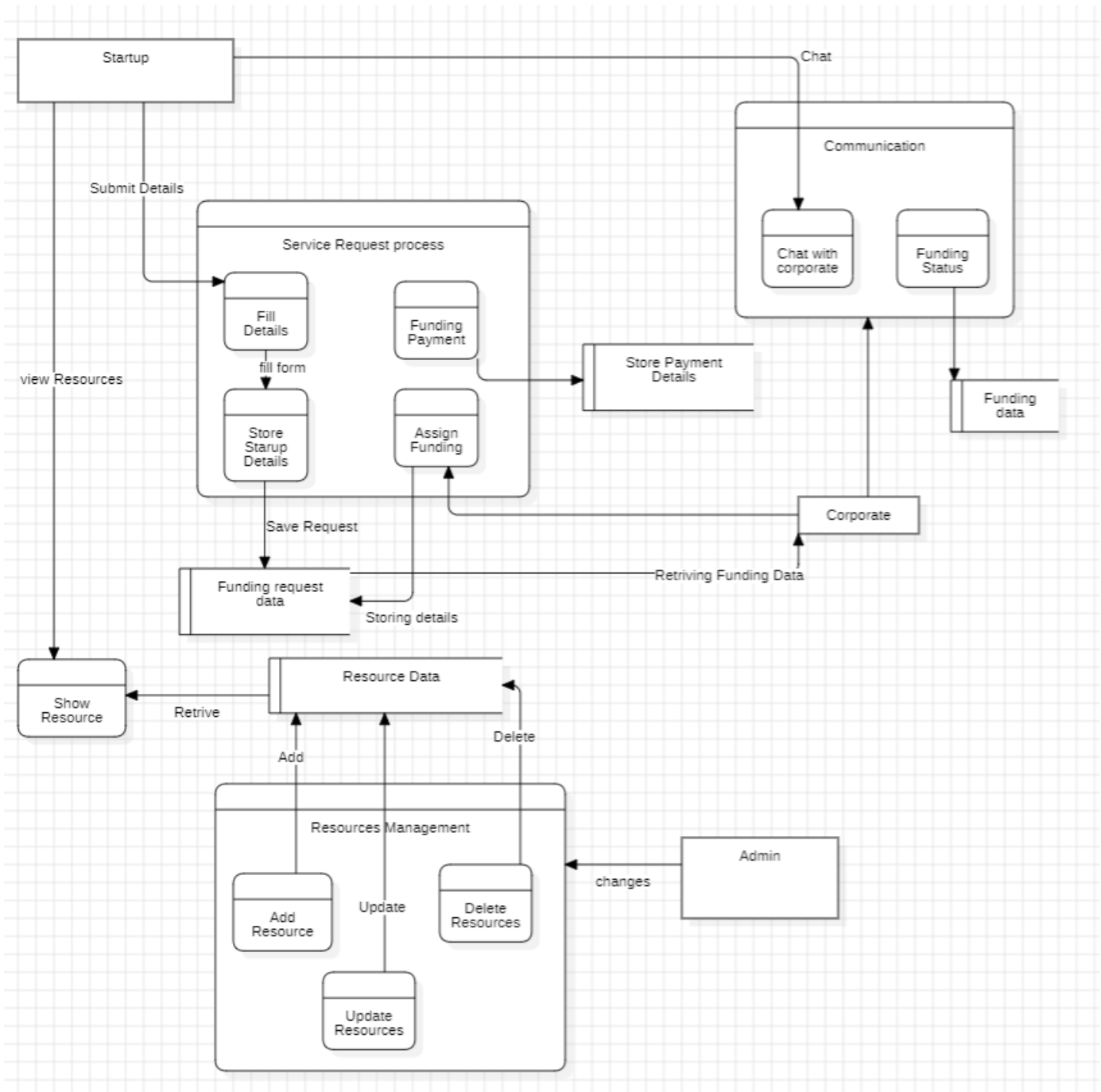


Fig 5.2.3 Data Flow Diagram level-2

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### 5.3 E-R diagram

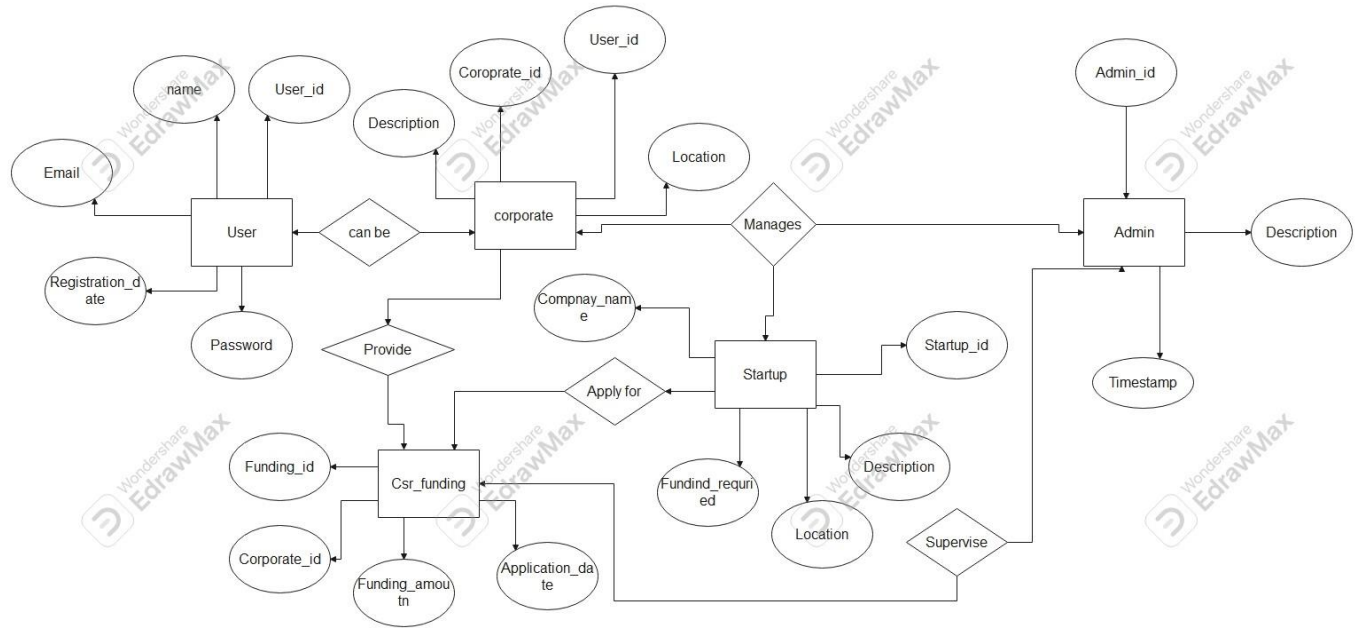


Fig 5.3 Entity Relationship Diagram



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## 5.4 Class diagram

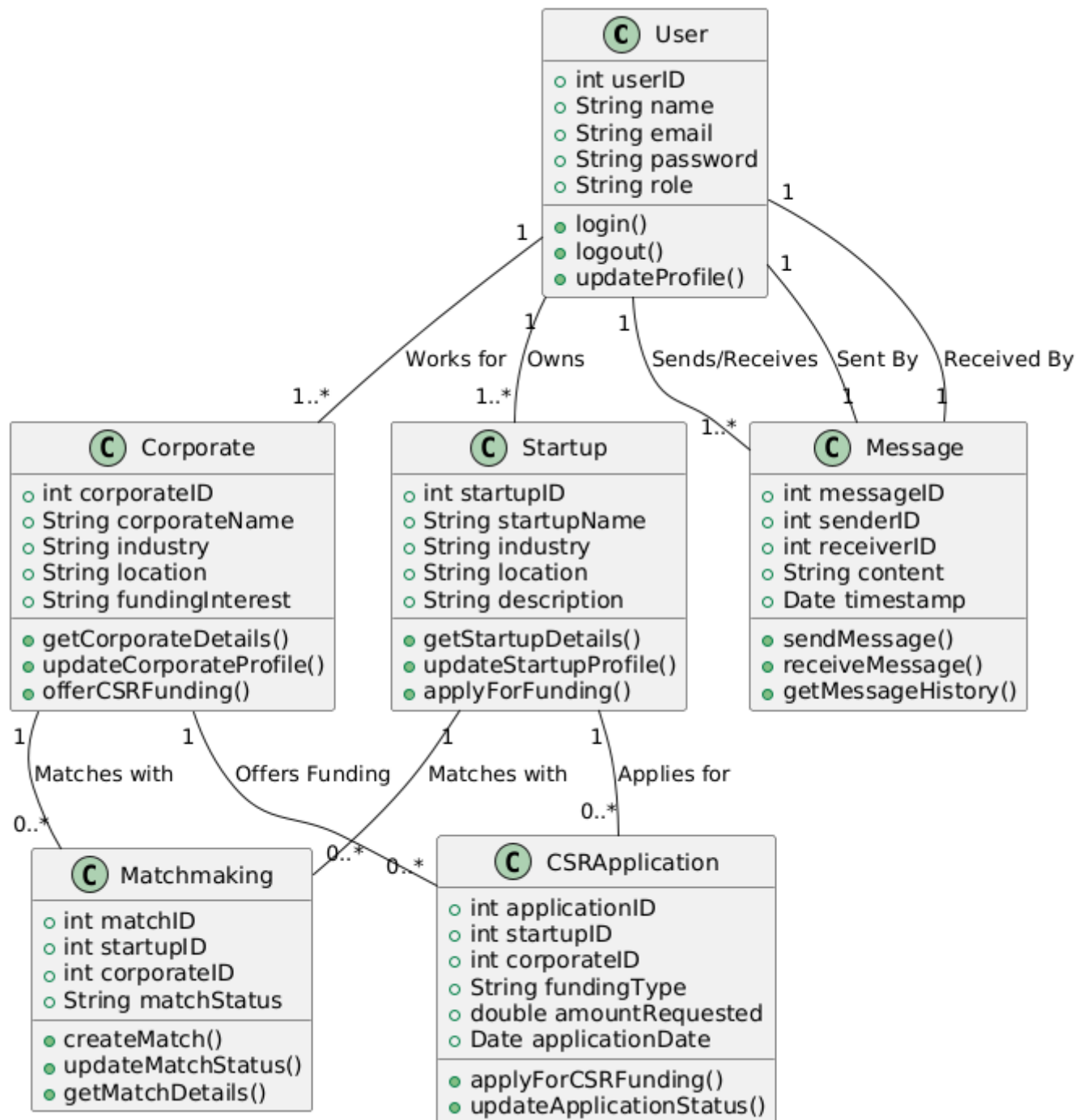


Fig 5.4 Class Diagram

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## 5.5 Use Case diagram

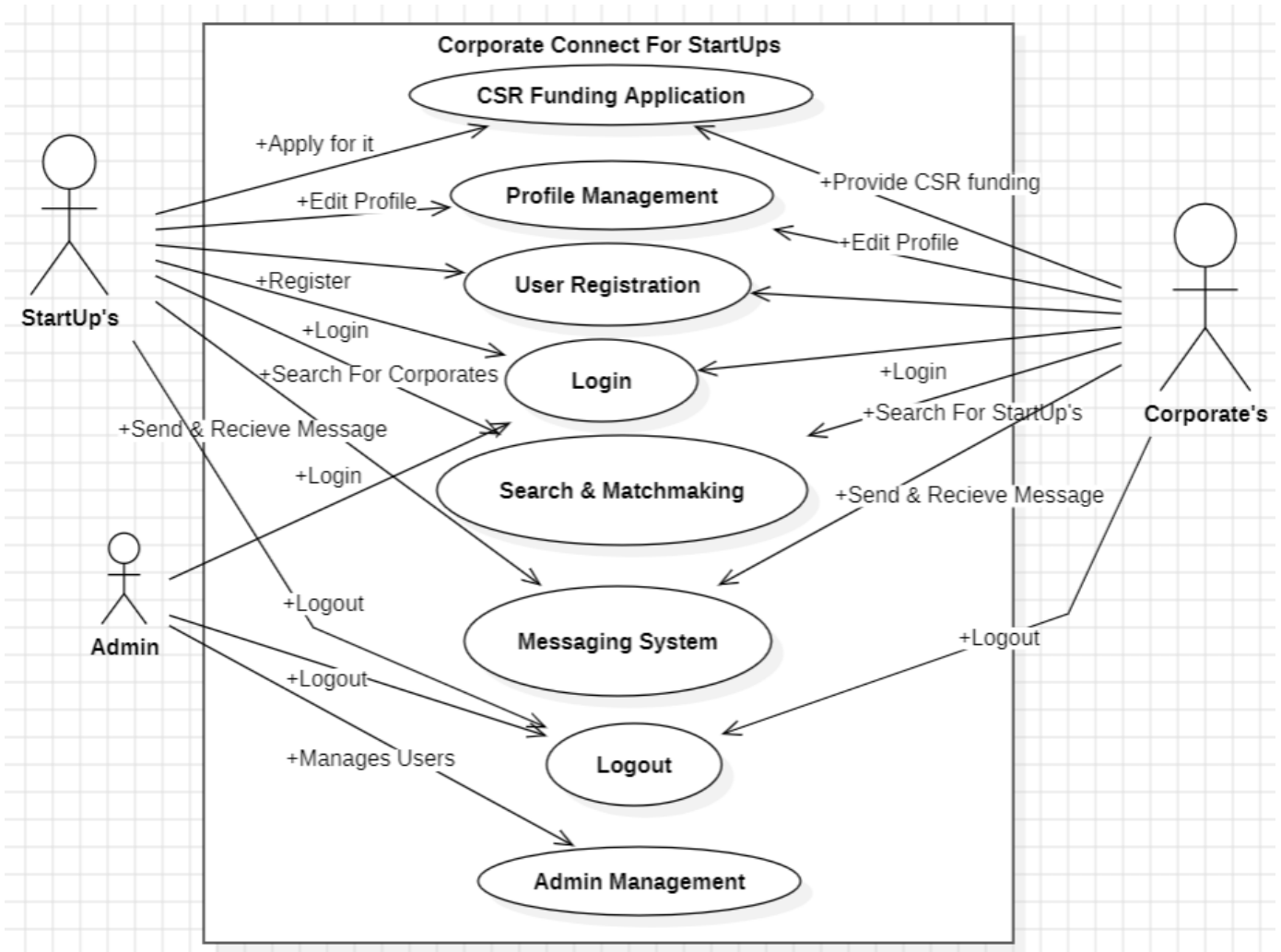


Fig 5.5 Use Case Diagram

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## 5.6 Behaviors Diagrams

- Activity Diagram

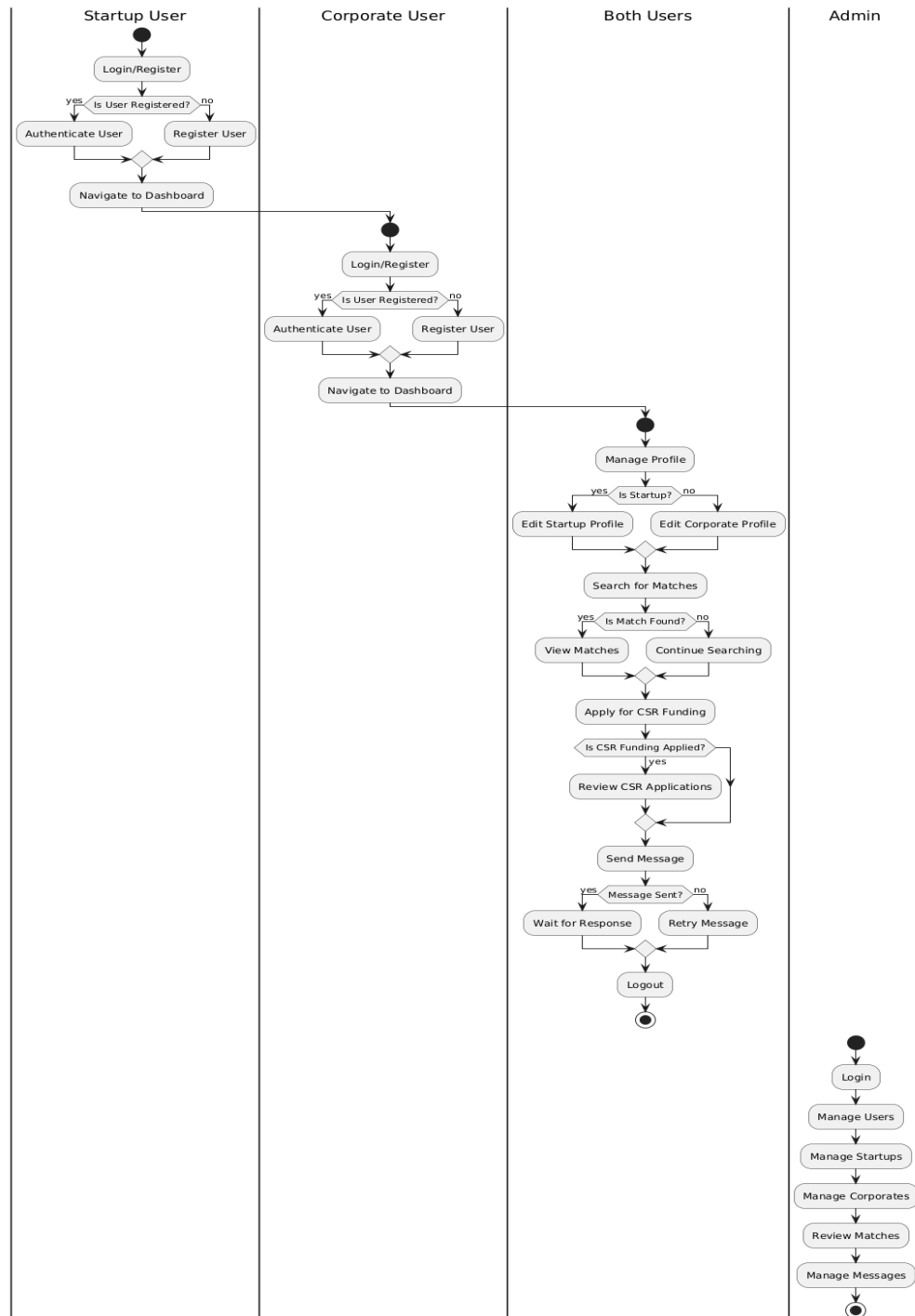


Fig 5.6.1 Activity Diagram

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## • Sequence Diagram



Fig 5.6.2 Sequence Diagram

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- Communication Diagram

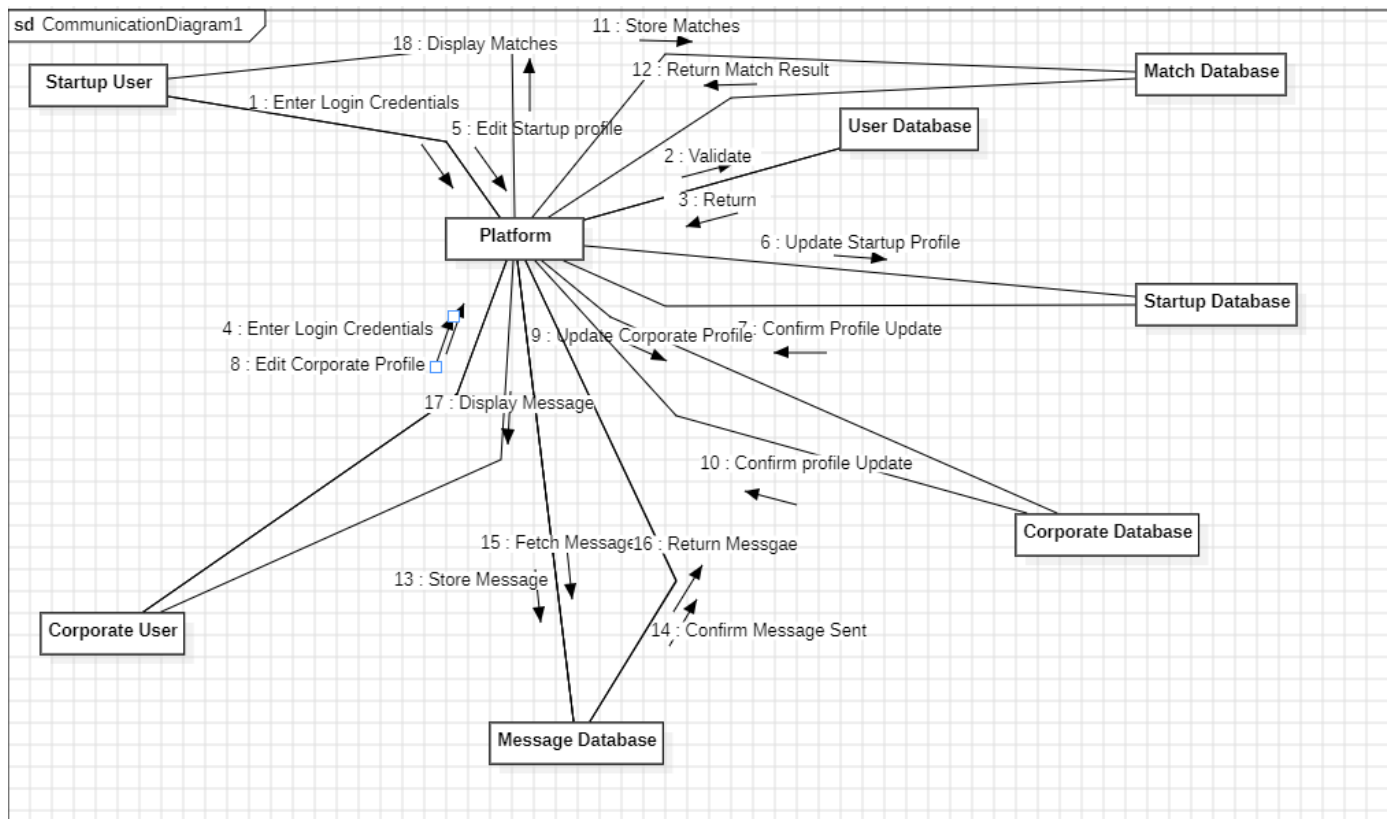


Fig 5.6.3 Communication Diagram

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## 5.7 Structural Diagrams

- Deployment Diagram

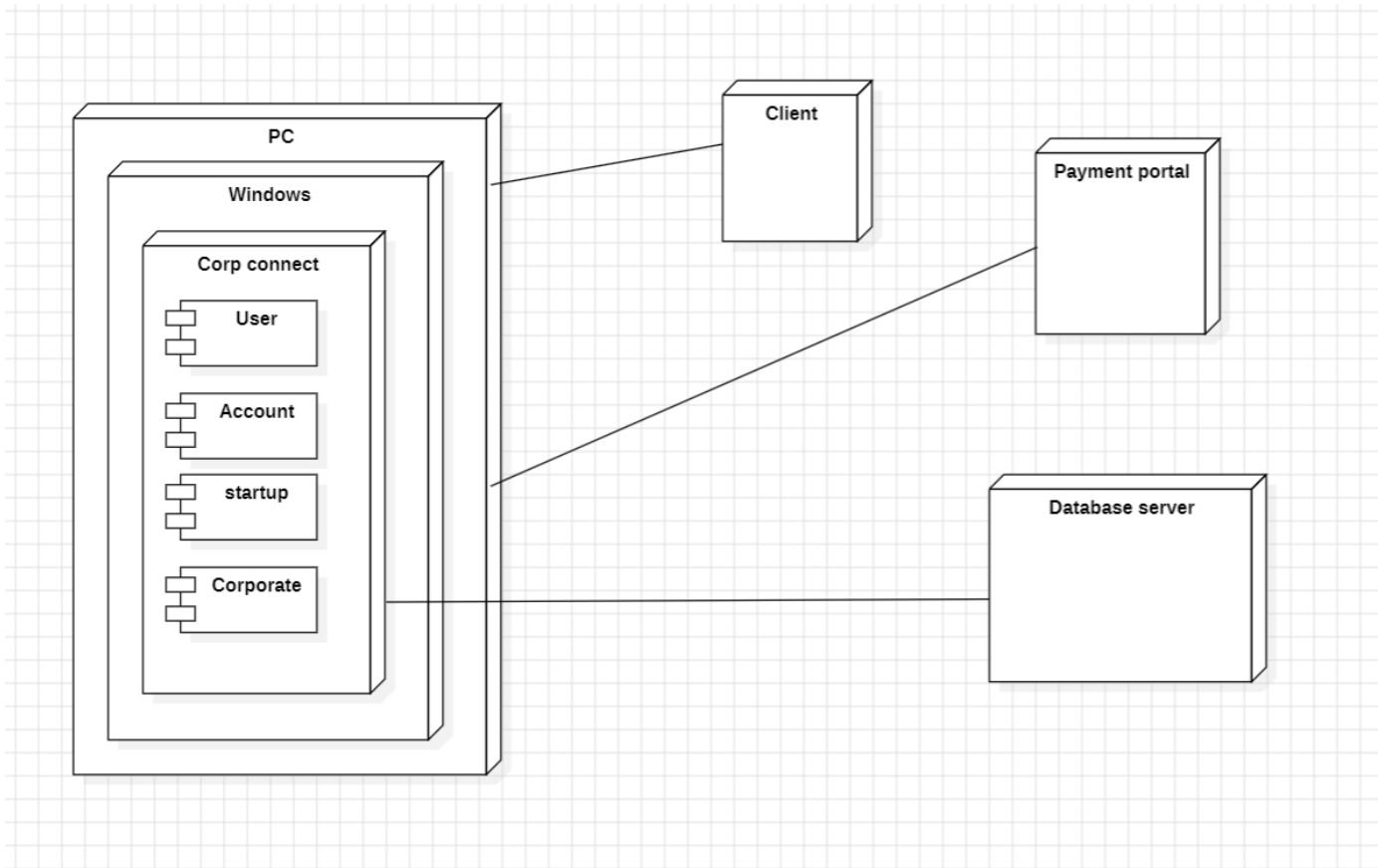


Fig 5.7.1 Deployment Diagram

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- Component Diagram

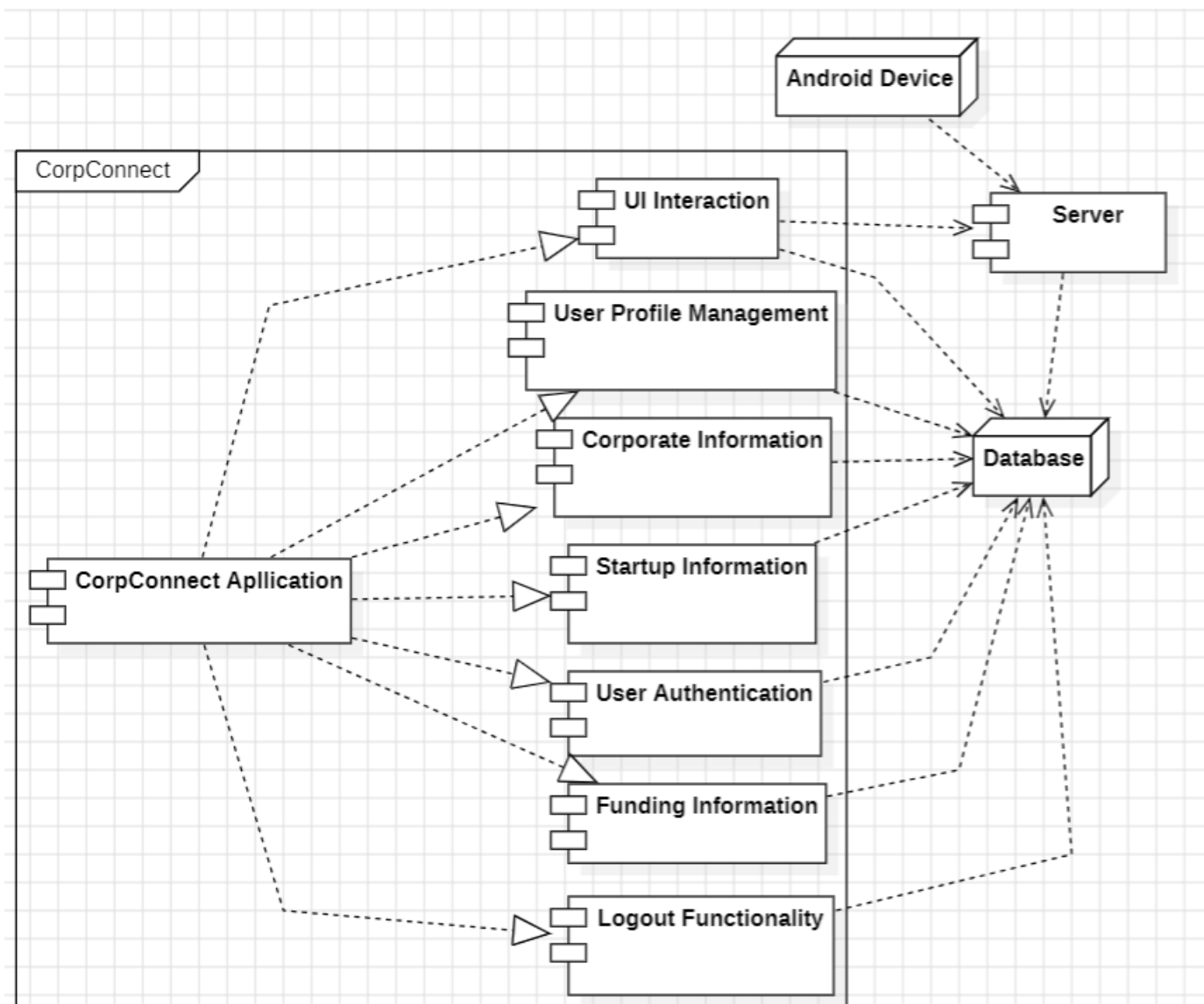


Fig 5.7.2 Component Diagram

## 5.8 Assumptions and Dependencies

### Assumptions

#### 1) User Availability:

- Corporate users, startup representatives, and administrators will be available for feedback during the development phases to ensure system alignment with user needs.

#### 2) Internet Access:

- The platform requires stable internet connectivity for both end-users and administrators to access and interact with the system.

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### 3) Data Accuracy:

- Users are expected to provide accurate and complete information during registration and profile management.

### 4) Scalability Support:

- The system will initially support a limited number of users, with plans to scale as the platform grows.

### 5) Compliance:

- The platform will adhere to data protection regulations like GDPR and other applicable regional laws.

## Dependencies

### 1) Third-Party Services:

- The system relies on external APIs for email notifications, SMS, and payment processing (if required for premium features).

### 2) Database Management System:

- A robust relational database, such as MySQL or PostgreSQL, will store all user and transaction data.

### 3) Development Frameworks:

- The platform depends on selected frameworks (e.g., React.js for the frontend, Node.js or Django for the backend) for efficient development.

### 4) Team Collaboration Tools:

- Development and project management will depend on tools like GitHub, Jira, and Slack for collaboration and version control.

### 5) Browser Compatibility:

- The platform assumes that users will access it using modern browsers (e.g., Chrome, Firefox, Edge) with JavaScript and cookies enabled.

## 6 Supporting Information

This section contains additional resources and tools to support the SRS document.

### a) Table of Contents:

A detailed Table of Contents is included at the beginning of the SRS document to facilitate navigation.

### b) Index:

An index is provided for quick lookup of key terms and topics within the document:

- CSR: Corporate Social Responsibility
- Matchmaking: Finding suitable connections between startups and corporates
- B2B: Business-to-Business transactions
- API: Application Programming Interface



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### c) Appendices:

#### 1) Use Case Storyboards:

- High-level illustrations or flowcharts depicting user interactions with the system.
- Example: How a startup applies for CSR funding or searches for corporates.

#### 2) User Interface Prototypes:

- Mockups or wireframes for major functionalities like:
  - Registration/Login
  - Matchmaking results
  - CSR application submission

### d) Glossary of Terms:

Here is the glossary of technical and project-related terms for the Corporate Connect Platform for Startups, extracted from the provided SRS document:

- 1) **SRS (Software Requirements Specification):** A document that outlines the functional, non-functional, and operational requirements for a software system.
- 2) **CSR (Corporate Social Responsibility):** A business model where corporates engage in initiatives for social good, often involving funding or partnerships with startups.
- 3) **UI (User Interface):** The visual elements of the platform that users interact with, such as buttons, forms, and menus.
- 4) **UX (User Experience):** The overall experience users have while interacting with the platform, focusing on usability and satisfaction.
- 5) **B2B (Business-to-Business):** Transactions or interactions between two businesses, such as startups and corporates in this platform.
- 6) **API (Application Programming Interface):** A set of rules and tools for building software applications that allow different systems to communicate seamlessly.
- 7) **ORM (Object Relational Mapping):** A programming technique for converting data between relational databases and object-oriented programming languages, used here with tools like Sequelize or Django ORM.
- 8) **OAuth 2.0:** A secure protocol for authorization, allowing users to log in safely without exposing their credentials.
- 9) **SSL/TLS Encryption:** Protocols for securing data transmitted over the internet, ensuring

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privacy and data integrity.

**10) CI/CD (Continuous Integration/Continuous Deployment):** Development practices that automate the integration and deployment of code changes for rapid delivery.

**e) References:**

- Research papers, technical guides, and API documentation utilized during the project:
  - Global Startup Ecosystem Report (GSER) 2023
  - React.js and PostgreSQL official documentation.

## 7 Conclusion & Future Scope

### 7.1 Conclusion:

The **Corporate Connect Platform for Startups** is designed to address critical challenges faced by startups and corporates, creating a seamless interface for interaction, collaboration, and growth. By providing a centralized platform, it facilitates meaningful connections based on mutual interests, domain expertise, and geographic regions. Features like matchmaking, CSR funding management, mentorship programs, and B2B partnerships establish the platform as a comprehensive ecosystem for fostering innovation and business growth.

This platform ensures that startups gain visibility and access to resources like funding and mentorship, while corporates discover innovative solutions and opportunities to contribute meaningfully through CSR initiatives. The scalable architecture and user-friendly interface make it adaptable for diverse use cases and global markets, laying the groundwork for a thriving ecosystem.

### 7.2 Future Scope:

The platform has significant potential for growth and feature enhancement. Below are additional opportunities for its future development:

**1) AI-Driven Matchmaking:**

- Incorporate advanced AI algorithms for smarter, more accurate matchmaking based on behavioural data.

**2) Mobile Application:**

- Extend platform accessibility with native apps for Android and iOS devices.

**3) Global Expansion:**

- Support multiple languages and currencies for international users.

**4) Enhanced Analytics:**

- Provide corporates and startups with deeper insights through data visualization and predictive analytics.

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### 5) **Gamification:**

- Introduce badges, achievements, and leaderboards to increase user engagement.

### 6) **Community and Networking:**

- Build an interactive community for startups and corporates to share knowledge, host webinars, and discuss challenges.

### 7) **Customer Support Enhancements:**

- Implement AI-powered chatbots for real-time assistance.
- Offer multi-channel support, including email, chat, and voice, to cater to diverse user needs.

### 8) **Premium Membership Tiers:**

- Introduce tiered subscriptions for advanced analytics, exclusive matchmaking algorithms, and personalized mentorship programs.

### 9) **Partnership with Educational Institutions:**

- Collaborate with universities and research centers to connect startups with student projects, internships, and innovation hubs.
- Enable corporates to find academic collaborators for research and development.

### 10) **Integration with External Platforms:**

- Collaborate with platforms like LinkedIn, AngelList, and Glassdoor to import/export professional data and expand user reach.

## 8 Concerns / Queries / Doubts if any:

### 1) **Technological Questions:**

- What are the best frameworks to achieve the matchmaking algorithm? Would a rule-based system or an ML-based recommendation engine be better?
- Should PostgreSQL or MongoDB be selected as the database backend? Will NoSQL provide more flexibility for unstructured data?

### 2) **Scalability Queries:**

- What strategies should be adopted to handle scaling for a growing user base? Would AWS auto-scaling features suffice?
- How can the platform ensure minimal downtime during major updates?

### 3) **Security Concerns:**

- Is OAuth 2.0 sufficient for securing user sessions, or should other security measures like multi-factor authentication (MFA) also be implemented?
- How to protect sensitive data (e.g., user financial information) from breaches?

### 4) **User Feedback Integration:**

- How to incorporate real-time feedback loops into the system to improve matchmaking efficiency?

### 5) **Regulatory Compliance:**

- What additional steps are necessary to comply with GDPR and CCPA for data privacy across international markets?